

FORM PTO-1449

INFORMATION DISCLOSURE CITATION

Attorney Docket:
2458-4042US2Serial No.:
10/019,242Applicant:
DENTON, et al.Filing Date:
December 21, 2001Group Art Unit:
TBA

U.S. PATENT DOCUMENTS

| Examiner Initial | Patent Number | Publication Date | Name | Class | Sub-Class | Filing Date |
|------------------|---------------|------------------|------------------|-------|-----------|-------------|
| MRS | 5,966,711 | 10/12/1999 | Adams | | | |
| | 6,043,040 | 03/28/2000 | Acton | | | |
| | 6,030,778 | 02/29/2000 | Acton et al. | | | |
| | 6,223,128 B1 | 4/24/2001 | Allex et al. | | | |
| | 5,121,320 | 6/9/1992 | Aoki et al. | | | |
| | 6,222,559 B1 | 4/24/2001 | Asano et al. | | | |
| | 6,185,561 B1 | 2/6/2001 | Balaban et al. | | | |
| | 6,081,786 | 06/27/2000 | Barry et al. | | | |
| | 6,188,988 | 02/13/2001 | Barry et al. | | | |
| | 5,874,256 | 02/23/1999 | Bertina et al. | | | |
| | 5,866,404 | 2/2/1999 | Bradshaw et al. | | | |
| | 6,020,126 | 2/1/2000 | Carlsson et al. | | | |
| | 6,219,674 | 04/17/2001 | Classen | | | |
| | 5,773,220 | 06/30/2000 | Dekosky et al. | | | |
| | 5,811,239 | 09/22/1998 | Frayne | | | |
| | 5,912,120 | 06/15/1999 | Goldstein et al. | | | |
| | 5,891,633 | 04/06/1999 | Gonzalez et al. | | | |
| | 5,297,288 | 3/22/1994 | Hemminger et al. | | | |
| | 5,762,876 | 6/9/1998 | Lincoln et al. | | | |
| | 5,811,235 | 09/22/1998 | Jeffreys | | | |
| | 5,853,989 | 12/29/1998 | Jeffreys et al. | | | |
| | 6,094,626 | 7/25/2000 | Kephart et al. | | | |
| | 5,361,351 | 11/1/1994 | Lenkov et al. | | | |
| | 5,953,727 | 9/14/1999 | Maslyn et al. | | | |
| | 6,189,013 B1 | 2/13/2001 | Maslyn et al. | | | |
| | 6,175,830 B1 | 1/16/2001 | Maynard | | | |
| | 5,648,482 | 07/15/1997 | Meyer | | | |
| | 4,706,192 | 11/10/1987 | Nasu et al. | | | |
| | 6,214,556 B1 | 4/10/2001 | Olek et al. | | | |
| | 5,561,754 | 10/1/1996 | Oliver et al. | | | |
| | 5,559,944 | 9/24/1996 | Ono | | | |
| | 5,834,183 | 11/10/1998 | Orr et al. | | | |
| | 5,876,933 | 03/02/1999 | Perlin | | | |
| | 5,632,041 | 5/20/1997 | Peterson et al. | | | |
| | 6,022,683 | 02/08/2000 | Poirer | | | |
| | 5,862,304 | 1/19/1999 | Ravdin et al. | | | |
| | 6,178,382 | 01/23/2001 | Roederer et al. | | | |
| | 6,141,657 | 10/31/2000 | Rothberg et al. | | | |
| | 5,972,614 | 10/26/1999 | Ruano et al. | | | |
| | 5,970,500 | 10/19/1999 | Sabatini et al. | | | |
| | 5,966,712 | 10/12/1999 | Sabatini et al. | | | |

Examiner

MRS

Date Considered

9/26/05

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP §609.
 Draw line through citation if not in conformance and not considered.
 Include copy of this form with next communication to Applicant.

| | | |
|--|------------------|-----------------|
| FORM PTO-1449 INFORMATION DISCLOSURE CITATION | Attorney Docket: | Serial No.: |
| | 2458-4042US2 | 10/019,242 |
| | Applicant: | |
| | DENTON, et al. | |
| Filing Date: | | Group Art Unit: |
| December 21, 2001 | | TBA |

| | | | | | |
|---|-----------|------------|------------------|--|--|
| ✓ | 5,972,604 | 10/26/1999 | Santamaria et al | | |
| | 5,858,659 | 01/12/1999 | Sapolsky et al. | | |
| | 5,187,775 | 2/16/1993 | Schroeder et al. | | |
| | 5,867,402 | 2/2/1999 | Schneider et al. | | |
| | 6,023,659 | 2/8/2000 | Seilhamer et al. | | |
| | 5,096,557 | 03/17/1992 | Simons | | |
| | 5,192,659 | 03/09/1993 | Simons | | |
| | 5,612,179 | 03/18/1997 | Simons | | |
| | 5,789,568 | 08/04/1998 | Simons | | |
| | 5,851,762 | 12/22/1998 | Simons | | |
| | 5,724,253 | 3/3/1998 | Skovira | | |
| | 5,834,189 | 11/10/1998 | Stevens et al. | | |
| | 5,618,672 | 4/8/1997 | Stodola et al. | | |
| | 5,885,776 | 03/23/1999 | Stone et al. | | |
| ✓ | 5,502,773 | 3/26/1996 | Tibbetts et al. | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initial | Patent Number | Publication Date | Country | Class | Sub-Class | Translation |
|------------------|---------------|------------------|---------|-------|-----------|--|
| ✓ | WO 87/02802 | 5/7/1987 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 91/05302 | 4/18/1991 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 92/01066 | 1/23/1992 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 95/17524 | 6/29/1995 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 95/10805 | 4/20/1995 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 97/40462 | 10/30/1997 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/05323 | 02/04/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/05324 | 02/04/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/11822 | 3/11/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/54500 | 10/28/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/57308 | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/64626 | 12/16/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/64627 | 12/16/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 00/33161 | 06/08/2000 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 00/50639A2 | | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | (cd format) | | | | | |
| | WO 00/50639A3 | | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | (cd format) | | | | | |
| ✓ | WO 01/91026 | 11/29/2001 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 02/064617 | 08/22/2002 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0245466B1 | 5/25/1994 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0336560A2 | 10/11/1989 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0336560A3 | 10/11/1989 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0336560B1 | 11/30/1994 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0404682A2 | 12/27/1990 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| ✓ | EP 0404682B1 | 12/27/1990 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| | |
|--|-----------------|
| Examiner | Date Considered |
| ✓ | 9/28/05 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | |

| | | |
|--|-----------------------------------|---------------------------|
| FORM PTO-1449 INFORMATION DISCLOSURE CITATION | Attorney Docket: 2458-4042US2 | Serial No.: 10/019,242 |
| | Applicant: DENTON, et al. | |
| | Filing Date: December 21, 2001 | Group Art Unit: TBA |

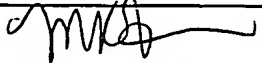
| | | | | | | |
|-----|--------------|------------|----|--|--|--|
| MVE | EP 0408188A2 | 1/16/1991 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0408188A3 | 1/16/1991 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0408188B1 | 1/16/1991 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0449494A2 | 10/2/1991 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0449494A3 | 10/2/1991 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0449494B1 | 8/25/1999 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0474944A2 | 3/18/1992 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0474944B1 | 7/16/1997 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0481286A2 | 4/22/1992 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0481286B1 | 4/9/1997 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0494907B1 | 5/15/1996 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0612846A1 | 8/31/1994 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0612846B1 | 8/16/2000 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0673523B1 | 2/10/1999 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0812922A2 | 12/17/1997 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.) | |
|---|--|
| MVE | Beaudet, Arthur L., "1998 ASHG Presidential Address – Making Genomic Medicine a Reality", <u>American Journal of Human Genetics</u> , Vol. 64, pp. 1-13, 1999. |
| X | Carter et al., "Genetic Control of Drug-Induced Recovery from Murine Visceral Leishmaniasis", <u>J. Pharm. Pharmacol.</u> 1994, 45:795-798 |
| X | Cashman, Siobhan M. et al., "The Irish Cystic Fibrosis Database", <u>Journal of Medical Genetics</u> , Vol. 32, pp. 972-975, July 1995. |
| X | Chakraborty, R. "A Class of Population Genetic Questions Formulated as the Generalized Occupancy Problem", <u>Genetics</u> , July 1993, 134:953-958 |
| X | Chiano et al. "Fine Genetic Mapping Using Haplotype Analysis and the Missing Data Problem", <u>Ann. Hum. Genet.</u> , 1998, 62:55-60. |
| X | Clark, Andrew G. et al., "Haplotype Structure and Population Genetic Inferences From Nucleotide-Sequence Variation in Human Lipoprotein Lipase", <u>American Journal of Human Genetics</u> , Vol. 63, pp. 595-612, 1998. |
| X | Clark, Andrew G. , "Inference of Haplotypes from PCR-amplified Samples of Diploid Populations", <u>Mol. Biol. Evol.</u> , 7(2):111-122, 1990 |
| X | Cooper, Gillian et al., "Network Analysis of Human Y Microsatellite Haplotypes", <u>Human Molecular Genetics</u> , Vol. 5, No. 11, pp. 1759-1766, 1996. |
| X | Dempster et al., "Maximum Likelihood from Incomplete Data via the EM Algorithm", <u>J. Statistical Society</u> , Vol. 39, No. 1, pp.1-38, 1977 |
| X | Drefus et al. "Etude des Reactions Croisees des Antigenes HLA A et B Chez 63 Patients Atteints de Polyarthrite Rhumatoide", <u>Revue du Rhumatisme</u> , 1984, 51(4), 197-202 |
| X | Drysdale, "Complex promoter and coding region beta 2-adrenergic receptor haplotypes alter receptor expression and predict in vivo responsiveness", 2000, <u>Proc. Natl. Acad. Sci.</u> 97(19):10483-8 |
| X | Excoffier et al., "Incorporating Genotypes of Relatives into a Test of Linkage Disequilibrium", <u>Am. J. Hum. Genet.</u> , 62:171-180, 1998 |
| X | Excoffier et al. "Maximum-Likelihood Estimation of Molecular Haplotype Frequencies in a Diploid Populations", <u>Mol. Biol. Evol.</u> , 1995, 12(5):921-927. |
| X | Fisher, Lloyd D. et al., "Biostatistics: A Methodology for the Health Sciences", pp. 345-495, 692-762, John Wiley & Sons, Inc. |

| | | | |
|--|-----|-----------------|---------|
| Examiner | MVE | Date Considered | 9/26/05 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | | | |

| | | |
|--|-----------------------------------|---------------------------|
| FORM PTO-1449 INFORMATION DISCLOSURE CITATION | Attorney Docket: 2458-4042US2 | Serial No.: 10/019,242 |
| | Applicant: DENTON, et al. | |
| | Filing Date: December 21, 2001 | Group Art Unit: TBA |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.) | |
|---|---|
| MMB | Gene et al., "Haplotype Frequencies of Eight Y-chromosome STR loci in Barcelona (North-East Spain)", <u>International Journal of Legal Medicine</u> , Vol. 112, pp. 403-405, 1999. |
| | Hartl, Daniel L. et al., "Genetic and Phenotypic Variation", <u>Principles of Population Genetics</u> , pp. 37-109, Singuer Associates, Inc., 3 ed. |
| | Hawley et al., "HAPLO: A Program Using the EM Algorithm to Estimate the Frequencies of Multi-site Haplotypes", <u>J. of Heredity</u> , 86(5), pp. 409-411, 1995 |
| | Hill et al., "Human Genetic Variation and Its Impact on Public Health and Medicine", pp.62-74 |
| | Hill, "Tests for Association of Gene Frequencies at Several LOCI in Random Mating Diploid Populations", <u>Biometrics</u> , 31, 881-888, 1975 |
| | Hoang, Liem et al., "PAH Mutation Analysis Consortium Database: A Database for Disease-Producing and Other Allelic Variation at the Human PAH Locus", <u>Nucleic Acids Research</u> , Vol. 24, No. 1, pp. 127-131, 1996. |
| | Jackson et al., "Pharmacokinetic-Pharmacogenetic Modelling in the Detection of Polymorphisms in Xenobiotic Metabolism", 1990, <u>Ann. Occup. Hyg.</u> 34(6):653-662 |
| | Judson et al., "The Predictive Power of Haplotypes in Clinical Response", 2000, pp.1-12 |
| | Judson, Richard, "Genetic Algorithms and Their Use in Chemistry", <u>Reviews in Computational Chemistry</u> , Vol. 10, pp. 1-66, 1997 |
| | Kalow et al., "The Science of Pharmacological Variability: An essay", <u>Clin. Pharma. & Therapeutics</u> , Vol. 66, No. 5, pp.445-447, 1999 |
| | Kardia et al., "An Evolutionary Perspective on the Genetic Architecture of Susceptibility to Cardiovascular Disease", pp.231-245 |
| | Kleyn, Patrick W. et al., "Genetic Variation as a Guide to Drug Development", <u>Science</u> , Vol. 281, pp. 1820-1821, September 18, 1998. |
| | Kwok et al., "Single Nucleotide Polymorphism Libraries: Why and How are We Building Them?", <u>Mol. Med. Today</u> , 1999, Vol. 5, pp. 538-543 |
| | Layton et al., "The Therapeutic Response to D-Penicillamine in Rheumatoid Arthritis: Influence of Glutathione S-transferase Polymorphisms", <u>Rheumatology</u> , 1999, 38:43-47 |
| | Long et al., "An E-M Algorithm and Testing Strategy for Multiple-Locus Haplotypes", <u>Am. J. Hum. Genet.</u> , 56:799-810, 1995 |
| | MacLean et al., "Estimation of Myriad Haplotype Frequencies", <u>Genetic Epidemiology</u> , 2:263-272, 1985 |
| | Magon, "Pharmacogenetic interactions in G6PD deficiency and development of an in vitro test to predict a drug's hemolytic potential", 1981, <u>Prog. Clin. Biol. Res.</u> , 55:709-24 |
| | Matise, T.C., "Genome Scanning for Complex Disease Genes Using the Transmission / Disequilibrium Test and Haplotype-based Haplotype Relative Risk", <u>Genetic Epidemiology</u> , Vol. 12, pp. 641-645, 1995. |
| | Meyer, Urs A., "Medically Relevant Genetic Variation of Drug Effects", pp. 41-49 |
| | Michalatos-Beloin et al. "Molecular Haplotyping of Genetic Markers 10 kb Apart by Allele-Specific Long Range PCR", <u>Nucleic Acids Research</u> , 1996, 24(23):4841-4843. |
| | Mori, Motomi et al., "Computer Program to Predict Likelihood of Finding an HLA-Matched Donor: Methodology, Validation, and Application", <u>Biology of Blood and Marrow Transplantation</u> , Vol 2, pp. 134-144, October 1996. |
| | Mori, Motomi et al., "HLA Gene and Haplotype Frequencies in the North American Population", <u>Transplantation</u> , Vol. 64, No. 7, pp. 1017-1027, October 15, 1997. |
| | Neuman et al. "A Bit about Haplotypes: Using Binary Digits to Code Tightly Linked Loci", <u>Hum. Hered.</u> , 1994 44:241-247 |
| V | Niu et al., "Bayesian Haplotype Inference for Multiple Linked Single-Nucleotide Polymorphisms", <u>Am. J. Hum. Genet.</u> , 2002, 70:157-169 |

| | | | |
|--|---|-----------------|---------|
| Examiner |  | Date Considered | 9/26/05 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | | | |

| | | |
|--|-----------------------------------|---------------------------|
| FORM PTO-1449 INFORMATION DISCLOSURE CITATION | Attorney Docket: 2458-4042US2 | Serial No.: 10/019,242 |
| | Applicant: DENTON, et al. | |
| | Filing Date: December 21, 2001 | Group Art Unit: TBA |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.) | |
|---|---|
| ✓ | Olsen et al., "Design and Sample-Size Considerations in the Detection of Linkage Disequilibrium with a Disease Locus", <i>Am. J. Hum. Genet.</i> 1994, 55:574-580 |
| | Perlin, Mark et al., "Toward Fully Automated Genotyping: Allele Assignment, Pedigree Construction, Phase Determination, and Recombination Detection in Duchenne Muscular Dystrophy", <i>American Journal of Human Genetics</i> , Vol. 55, pp. 777-787, June 1994. |
| | Press, William H. et al., "Numerical Recipes in C: The Art of Scientific Computing", pp. 394-455, Cambridge University Press, 2 ed. |
| | Rich, Elaine et al., "Artificial Intelligence", pp. 514-519, McGraw-Hill, Inc., 2 ed. |
| | Ruano et al. "Haplotype of Multiple Polymorphisms Resolved by Enzymatic Amplification of Single DNA Molecules", August 1990, <i>Proc. Natl. Acad. Sci.</i> , Vol. 87, pp. 6296-6300 |
| | R & D Directions Staff, "Beyond Genomics", R & D Directions, April 1999 pp. 40-44 |
| | Slatkin et al., "Testing for Linkage Disequilibrium in Genotypic Data Using the Expectation-Maximization Algorithm", <i>Heredity</i> , 76:377-383, 1996 |
| | Staessen et al., "M235T Angiotensinogen Gene Polymorphism And Cardiovascular Renal Risk", <i>J. Hypertension</i> , January 1999, 17(1):9-17. |
| | J.C. Stephens et al., "Haplotype Variation and Linkage Disequilibrium in 313 Human Genes", <i>Science</i> , 2001 |
| | Stephens, J. Claiborne, "Single-nucleotide Polymorphisms, Haplotypes, and Their Relevance to Pharmacogenetics", <i>Molecular Diagnosis</i> , Vol. 4, No. 4, pp. 309-317, December 1999. |
| | Stephens et al., "A New Statistical Method for Haplotype Reconstruction from Population Data", <i>Am. J. Hum. Genet.</i> , 2001, 68:978-989 |
| | Thayer, Ann M., "Bioinformatics for the Masses", <i>C&EN</i> , 19-32, 2000 |
| | Tishkoff S. A. et al., "The Accuracy of Statistical Methods for Estimation of Haplotype Frequencies: An Example from the CD4 Locus", <i>American Journal of Human Genetics</i> , Vol 67, pp. 518-522, August 2000. |
| | Appleby, "Pharmaceutical Labs Exploring Drugs Tailored to Ethnicity, DNA", January 24, 1999, Las Vegas Review - Journal, Section A, p. 26A. |
| | Birt, "Drugs Industry Predicted to Be 'Microsoft' For the New Millenium", June 1, 1998, Birmingham Post, pg. 29 |
| | "Bursting with Innovation", December 1997, Med Ad News, |
| | Craig, "Answers for the Toughest Challenges", April 19, 1999; Forbes, Supplement; Special Advertising Section; Biotechnology, page 2. |
| | Debare, "California Spotlight: Incyte plans to conquer DNA mapping within year; Genetics: Part of the plan is to purchase British firm Hexagen for \$41 million", August 23, 1998, The Orange County Register, pg. K01. |
| | Furuta, "Race to Unlock Genetic Secrets Heats Up in Japan's Laboratories: Analysis of Genes Could Help Create Tailor-Made Medicines", November 16, 1998, The Nikkei Weekly, pg. 1 |
| | "Genaissance Raises \$10 Million in Private Placement; Accelerates Development of Personalized Medicines Through Pharmacogenomics", August 27, 1998; PR Newswire, Financial News Section |
| | MacGregor, "Delay is Half The Cure: Nova's Merger With U.S. Firm Steps Up Research Aimed at Postponing Alzheimer's Until It No Longer Matters", March 10, 1999, The Gazette (Montreal), Section D1. |
| | "Mix/Match Analysis of Gene Diversity in Ethnic Cross-Section Aims at Personalized Medicine", 2001, Bioworld Today, p. 5 |
| | Regalado, "Inventing the Pharmacogenomics Business, Part I", September 1997, In Vivo the Business & Medicine Report, p. 52. |
| | Sadee, Wolfgang, "Using Genetic Information to Optimize Drug Therapy", Medscape Pharmacotherapy, 2000 |
| | "Terrapin and Genaissance Establish Research and Development Collaboration Targeting Drug Candidates Based on Estrogen Receptor Modulators Identified in Genomics Research", February 12, 1998, Business Wire |

| | |
|--|-----------------|
| Examiner | Date Considered |
| <i>[Signature]</i> | 9/26/05 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | |

| | | |
|--|-----------------------------------|---------------------------|
| FORM PTO-1449 INFORMATION DISCLOSURE CITATION | Attorney Docket: 2458-4042US2 | Serial No.: 10/019,242 |
| | Applicant: DENTON, et al. | |
| | Filing Date: December 21, 2001 | Group Art Unit: TBA |

| OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.) | |
|---|---|
| MKB | The Genesis Group, "Will Pharmacogenomics Create a \$2 Billion Market?", July 1998, Genesis Report, 8(1); pg 26; 1061-2289 |
| | "Valigen Acquires Berlin-Based Infogen and Phenotype Database", 2000, Worldwide Biotech |
| | "Variagenics, Inc. Acquires Exclusive Rights To Leading Pharmacogenomic Technologies for Neurological Disorders", February 8, 1999, Canada Newswire |
| | Yasuhara, "Ethnic factors in evaluation of drug efficacy and safety", August 1994, Nippon Yakurigaku Zasshi, 102(2): 67-78 (English Abstract) |
| | Text of April 17, 2001 press release re: Classen patent No. 6,219,674 |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

| | | | |
|--|-----|-----------------|---------|
| Examiner | MKB | Date Considered | 9/26/05 |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | | | |

JUL 27 2004 5:52PM

NO. 296 P. 23

JUL 27 2004

Page 2 of 6



| | | |
|--|-----------------------------------|---------------------------|
| FORM PTO-1449 INFORMATION DISCLOSURE CITATION | Attorney Docket: 2458-4042US2 | Serial No.: 10/019,242 |
| | Applicant: DENTON, et al. | |
| | Filing Date: December 21, 2001 | Group/Art Unit: TBA |
| | | |

| | | | | | | |
|--|-----------|------------|------------------|--|--|--|
| | 5,972,604 | 10/26/1999 | Santamaria et al | | | |
| | 5,858,659 | 01/12/1999 | Sapolsky et al. | | | |
| | 5,187,775 | 2/16/1993 | Schroeder et al. | | | |
| | 5,867,402 | 2/2/1999 | Schneider et al. | | | |
| | 6,023,659 | 2/8/2000 | Selhamer et al. | | | |
| | 5,096,557 | 03/17/1992 | Simons | | | |
| | 5,192,659 | 03/09/1993 | Simons | | | |
| | 5,612,179 | 03/18/1997 | Simons | | | |
| | 5,789,568 | 08/04/1998 | Simons | | | |
| | 5,851,762 | 12/22/1998 | Simons | | | |
| | 5,724,253 | 3/3/1998 | Skovira | | | |
| | 5,834,189 | 11/10/1998 | Stevens et al. | | | |
| | 5,618,672 | 4/8/1997 | Stodola et al. | | | |
| | 5,885,776 | 03/23/1999 | Stone et al. | | | |
| | 5,502,773 | 3/26/1996 | Tibbets et al. | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|------------------------------|------------------|---------|-------|-----------|---|
| Examiner Initial | Patent Number | Publication Date | Country | Class | Sub-Class | Translation <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 87/02802 | 5/7/1987 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 91/05302 | 4/18/1991 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 92/01066 | 1/23/1992 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 95/17524 | 6/29/1995 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 95/10805 | 4/20/1995 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 97/40462 | 10/30/1997 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/05323 | 02/04/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/05324 | 02/04/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/11822 | 3/11/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/54500 | 10/28/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/57308 | | | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/64626 | 12/16/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 99/64627 | 12/16/1999 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 00/33161 | 06/08/2000 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 00/50639A2 (cd format) | | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 00/50639A3 (cd format) | | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 01/51026 | 11/29/2001 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | WO 02/064617 | 08/22/2002 | PCT | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0245466B1 | 5/25/1994 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0336560A2 | 10/11/1989 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0336560A3 | 10/11/1989 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0336560B1 | 11/30/1994 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0404682A2 | 12/27/1990 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| | EP 0404682B1 | 12/27/1990 | EP | | | <input type="checkbox"/> Yes <input type="checkbox"/> No |

| | |
|--|-----------------|
| Examiner | Date Considered |
| EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP §609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. | |

721023 v1


DUPLICATE



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

| Title of Invention | Methods for Obtaining and Using Haplotype Data | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|------------|------------|--------------|------|-------|----------|------|----------|------------|------|----------|------|-------|----------|-----------|---|---------|------------|--------------|----|--|--|-----------|---|---------|------------|--------------|----|--|--|-----------|---------------|------|--|--|---------|
| <p>Application Number: 10/019242 </p> <p>Confirmation Number: 4987</p> <p>First Named Applicant: Richard Judson</p> <p>Attorney Docket Number: MWH-0032US2</p> <p>Art Unit: 2857</p> <p>Search string: (6537759 or 6664062).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td><i>MB</i></td><td>1</td><td>6537759</td><td>2003-03-25</td><td>Stanton, Jr.</td><td>B1</td><td></td><td></td></tr><tr><td><i>MB</i></td><td>2</td><td>6664062</td><td>2003-12-16</td><td>Stanton, Jr.</td><td>B1</td><td></td><td></td></tr></tbody></table> <p>Signature</p> <table border="1"><tr><td><i>MB</i></td><td>Examiner Name</td><td>Date</td></tr><tr><td></td><td></td><td>9/26/05</td></tr></table> | | | | | | | | init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass | <i>MB</i> | 1 | 6537759 | 2003-03-25 | Stanton, Jr. | B1 | | | <i>MB</i> | 2 | 6664062 | 2003-12-16 | Stanton, Jr. | B1 | | | <i>MB</i> | Examiner Name | Date | | | 9/26/05 |
| init | Cite.No. | Patent No. | Date | Patentee | Kind | Class | Subclass | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>MB</i> | 1 | 6537759 | 2003-03-25 | Stanton, Jr. | B1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>MB</i> | 2 | 6664062 | 2003-12-16 | Stanton, Jr. | B1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <i>MB</i> | Examiner Name | Date | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | 9/26/05 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

PTO/BB/025 (03-03)

Approved for use through 08/30/2005, OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | | | | | |
|---|---|--------------------------|----------------|------------------------|--------------|
| Substitute for form 1449B/PTO | | Complete if Known | | | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | Application Number | 10/019,242 | | |
| | | Filing Date | 12/21/2001 | | |
| | | First Named Inventor | Richard Judson | | |
| | | Art Unit | 2857 | | |
| | | Examiner Name | | | |
| Sheet | 1 | of | 1 | Attorney Docket Number | 2458-4042US2 |

| NON PATENT LITERATURE DOCUMENTS | | | |
|---------------------------------|-----------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| MJS | AA | RJ PETERSON ET AL., "Nucleotide sequence diversity in non-coding regions of ALDH2 as revealed by restriction enzyme and SSCP analysis," Human Genetics, Vol. 104 (No. 2), p. 177-87, (February 1999). | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|--------------------|---|-----------------|---------|
| Examiner Signature |  | Date Considered | 9/26/05 |
|--------------------|---|-----------------|---------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.87 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22319-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22319-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.